AUTHOR INDEX VOLUME 16

Abd El Salam, N., *see* De Malach, Y. et al.
Abdulmumin, S., *see* Nwadukwe, P.O. et al.
Agnihotri, Y., *see* Grewal, S.S. et al.
Al-Khafaf, S., Sharhan, F.A. (Baghdad, Iraq), Wierenga, P.J. (Las Cruces, NM, U.S.A.) and Iyada, A.D. (Baghdad, Iraq)
Some empirical relations for the prediction of soil evaporation, transpiration and root water uptake under field conditions 323
Allee, C.P., *see* Phene, C.J. et al.
Alvino, A., *see* Pagliai, M. et al.
Arora, Y., *see* Nwadukwe, P.O. et al.
Bajwa, M.S. and Josan, A.S. (Ludhiana, India)
Effect of gypsum and sodic irrigation water on soil and crop yields in a rice–wheat rotation 53
Bajwa, M.S. and Josan, A.S. (Ludhiana, India)
Prediction of sustained sodic irrigation effects on soil sodium saturation and crop yields .. 217
Bingham, F.T., *see* Rhoades, J.D. et al.
Borovic, I., *see* De Malach, Y. et al.
Brandyk, T. and Romanowicz, R. (Warsaw, Poland)
Long-term moisture control for soils with shallow groudwater table 75
Cuttle, S.P. (Edinburgh, U.K.)
Land use changes and inputs of nitrogen to Loch Leven, Scotland: a desk study 119
De Malach, Y. (Halutsa Mobile Post, Israel), Pasternak, D., Mendlinger, S., Borovic, I. (Beer-Sheva, Israel) and Abd El Salam, N. (Alexandria, Egypt)
Irrigation with brackish water under desert conditions. VIII. Further studies on onion (*Allium cepa* L.) production with brackish water 201
Dedrick, A.R., *see* Rhoades, J.D. et al.
Dinar, A. (Rehovot, Israel), Knapp, K.C. and Letey, J. (Riverside, CA, U.S.A.)
Irrigation water pricing policies to reduce and finance subsurface drainage disposal 155
Dubey, L.N., *see* Grewal, S.S. et al.
Garton, J.E., *see* Hodges, M.E. et al.
Grewal S.S., Mittal, S.P., Agnihotri, Y. and Dubey, L.N. (Chandigarh, India)
Rainwater harvesting for the management of agricultural droughts in the foothills of northern India 309
Hanson, B.R. (Davis, CA, U.S.A.)
A systems approach to drainage reduction in the San Joaquin Valley 97
Hegde, D.M. and Srinivas, K. (Bangalore, India)
Effect of soil matric potential and nitrogen on growth, yield, nutrient uptake and water use of banana 109
Hodges, M.E., Stone, J.F., Garton, J.E. and Weeks, D.L. (Stillwater, OK, U.S.A.)
Variance of water advance in wide-spread furrow irrigation 5
Hodges, M.E., Stone, J.F. (Stillwater, OK, U.S.A.) and Reeves, H.E. (Goodwell, OK, U.S.A.)
Yield variability and water use in wide-spread furrow irrigation 15
Hoffman, G.J., *see* Rhoades, J.D. et al.
Ike, I.F., *see* Nwadukwe, P.O. et al.
Iyada, A.D., *see* Al-Khafaf, S. et al.
Jorjani, H. (Wageningen, The Netherlands) and Visser, J. (Lelystad, The Netherlands)
A statistical analysis of the effect of drainage conditions and nitrogen fertilizer on apple production 251

Josan, A.S., *see* Bajwa, M.S. and Josan, A.S. (2x)
Knapp, K.C., *see* Dinar, A. et al.
Krishna, J.H. (Temple, TX, U.S.A.)
Modelling the effects of tied-ridging on water conservation and crop yields 87
Laryea, K.B., *see* Pathak, P. et al.
Letey, J., *see* Dinar, A. et al.
see also Rhoades, J.D. et al.
Mendlinger, S., *see* De Malach, Y. et al.
Mittal, S.P., *see* Grewal, S.S. et al.
Nelson, D., *see* Wichelns, D. and Nelson, D.
Nwadukwe, P.O., Abdulmumin, S., Arora, Y., Ike, I.F. (Zaria, Nigeria)
Effects of irrigation frequency and water table depths on root growth and yield of tomato in a tropical soil 241
Oron, G. (Kiry at Sde Boker, Israel)
Microcomputer for on-line control and operation of closed-conduit irrigation systems: an economical assessment 137
Pagliai, M., Pezzarossa, B. (Pisa, Italy), Zerbi, G. (Udine, Italy), Alvino, A. (Potenza, Italy), Rini, R. and Vigna Guidi, G. (Pisa, Italy)
Soil porosity in a peach orchard as influenced by water table depth 63
Pasternak, D., *see* De Malach, Y. et al.
Pathak, P., Laryea, K.B. and Singh, S. (Patancheru, India)
A modified contour bunding system for Alfisols of the semi-arid tropics 187
Pezzarossa, B., *see* Pagliai, M. et al.
Phene, C.J., Allee, C.P. and Pierro, J.D. (Fresno, CA, U.S.A.)
Soil matric potential sensor measurements in real-time irrigation scheduling 173
Pierro, J.D., *see* Phene, C.J. et al.
Pini, R., *see* Pagliai, M. et al.
Pinter, P.J., *see* Rhoades, J.D. et al.
Radulovich, R.A. (San Jose, Costa Rica)
Optimization of rainfed tropical cropping in semi-dry areas: a case study 337
Rao, U.M.B., *see* Vijayalakshmi, K. et al.
Reeves, H.E., *see* Hodges, M.E. et al.
Replogle, J.A., *see* Rhoades, J.D. et al.
Rhoades, J.D. (Riverside, CA, U.S.A.)
Intercepting, isolating and reusing drainage waters for irrigation to conserve water and protect water quality 37
Rhoades, J.D., Bingham, F.T., Letey, J. (Riverside, CA, U.S.A.), Hoffman, G.J. (Fresno, CA, U.S.A.), Bedrick, A.R., Pinter, P.J. and Replogle, J.A. (Phoenix, AZ, U.S.A.)
Use of saline drainage water for irrigation: Imperial Valley study 25
Romanowicz, R., *see* Brandyk, T. and Romanowicz, R.
Sabti, N.A. (Basrah, Iraq)
Linear and nonlinear solution of the Boussinesq equation for the bi-level drainage problem 269
Sammis, T. (Las Cruces, NM, U.S.A.) and Wu, I.P. (Honolulu, HI, U.S.A.)
Deficit irrigation effects on head cabbage production 229
Sharhan, F.A., *see* Al-Khafaf, S. et al.
Singh, S., *see* Pathak, P. et al.
Srinivas, K., *see* Hegde, D.M. and Srinivas, K.
Stone, J.F., *see* Hodges, M.E. et al.
Vigna Guidi, G., *see* Pagliai, M. et al.

Vijayalashmi, K., Vittal, K.P.R. and Rao, U.M.B. (Andhra Pradesh, India)
Minimal irrigation on small agricultural watersheds with red soils in the semi-arid tropics of Andhra Pradesh, India 279
Visser, J., *see* Jorjani, H. and Visser, J.
Vittal, K.P.R., *see* Vijayalakshmi, K. et al.
Weeks, D.L., *see* Hodges, M.E. et al.
Wichelns, D. (Kingston, RI, U.S.A.) and Nelson, D. (Los Banos, CA, U.S.A.)
An empirical model of the relationship between irrigation and the volume of water collected in subsurface drains 293
Wierenga, P.J., *see* Al-Khafaf, S. et al.
Wu, I.P., *see* Sammis, T. and Wu, I.P.
Zerbi, G., *see* Pagliai, M. et al.

CONTENTS OF *AGRICULTURAL WATER MANAGEMENT*, VOLUME 16

Vol. 16 No. 1,2 August 1989

Publisher's Note 1
Variance of water advance in wide-spread furrow irrigation
M.E. Hodges, J.F. Stone, J.E. Garton and D.L. Weeks (Stillwater, OK, U.S.A.) 5
Yield variability and water use in wide-spread furrow irrigation
M.E Hodges, J.F. Stone (Stillwater, OK, U.S.A.) and H.E. Reeves (Goodwell, OK, U.S.A.) 15
Use of saline drainage water for irrigation: Imperial Valley study
J.D. Rhoades, F.T. Bingham, J. Letey (Riverside, CA, U.S.A.), G.J. Hoffman (Fresno, CA, U.S.A.), A.R. Dedrick, P.J. Pinter and J.A. Replogle (Phoenix, AZ, U.S.A.) 25
Intercepting, isolating and reusing drainage waters for irrigation to conserve water and protect water quality
J.D. Rhoades (Riverside, CA, U.S.A.) 37
Effect of gypsum and sodic irrigation water on soil and crop yields in a rice–wheat rotation
M.S. Bajwa and A.S. Josan (Ludhiana, India) 53
Soil porosity in a peach orchard as influenced by water table depth
M. Pagliai, B. Pezzarossa (Pisa, Italy), G. Zerbi (Udine, Italy), A. Alvino (Potenza, Italy), R. Pini and G. Vigna Guidi (Pisa, Italy) 63
Long-term moisture control for soils with shallow groundwater table
T. Brandyk and R. Romanowicz (Warsaw, Poland) 75
Modelling the effects of tied-ridging on water conservation and crop yields
J. H. Krishna (Temple, TX, U.S.A.) 87
A systems approach to drainage reduction in the San Joaquin Valley
B.R. Hanson (Davis, CA, U.S.A.) 97
Effect of soil matric potential and nitrogen on growth, yield, nutrient uptake and water use of banana
D.M. Hegde and K. Srinivas (Bangalore, India) 109
Land use changes and inputs of nitrogen to Loch Leven, Scotland: a desk study
S.P. Cuttle (Edinburgh, U.K.) 119
Micro-computer for on-line control and operation of closed-conduit irrigation systems: an economical assessment
G. Oron (Kiryat Sde Boker, Israel) 137
Irrigation water pricing policies to reduce and finance subsurface drainage disposal
A. Dinar (Rehovot, Israel), K.C. Knapp and J. Letey (Riverside, CA, U.S.A.) 155

Vol. 16 No. 3 September 1989

Soil matric potential sensor measurements in real-time irrigation scheduling
C.J. Phene, C.P. Allee and J.D. Pierro (Fresno, CA, U.S.A.) 173
A modified contour bunding system for Alfisols of the semi-arid tropics
P. Pathak, K.B. Laryea and S. Singh (Patancheru, India) 187

Irrigation with brackish water under desert conditions. VIII. Further studies on onion (*Allium cepa* L.) production with brackish water
Y. De Malach (Halutsa, Israel), D. Pasternak, S. Mendlinger, I. Borovic (Beer-Sheva, Israel) and N.A. El Salam (Alexandria, Egypt) 201
Prediction of sustained sodic irrigation effects on soil sodium saturation and crop yields
M.S. Bajwa and A.S. Josan (Ludhiana, India) 217
Deficit irrigation effects on head cabbage production
T. Sammis (Las Cruces, NM, U.S.A.) and I.P. Wu (Honolulu, HI, U.S.A.) 229
Effects of irrigation frequency and water table depths on root growth and yield of tomato in a tropical soil
P.O. Nwadukwe, S. Abdulmumin, Y. Arora and I.F. Ike (Zaria, Nigeria) 241
A statistical analysis of the effect of drainage conditions and nitrogen fertilizer on apple production
H. Jorjani (Wageningen, The Netherlands) and J. Visser (Lelystad, The Netherlands) 251

Vol. 16 No. 4 November 1989

Linear and nonlinear solution of the Boussinesq equation for the bi-level drainage problem
N.A. Sabti (Basrah, Iraq) 269
Minimal irrigation on small agricultural watersheds with red soils in the semi-arid tropics of Andhra Pradesh, India
K. Vijayalakshmi, K.P.R. Vittal and U.M.B. Rao (Andhra Pradesh, India) 279
An empirical model of the relationship between irrigation and the volume of water collected in subsurface drains
D. Wichelns (Kingston, RI, U.S.A.) and D. Nelson (Los Banos, CA, U.S.A.) 293
Rainwater harvesting for the management of agricultural droughts in the foothills of northern India
S.S. Grewal, S.P. Mittal, Y. Agnihotri and L.N. Dubey (Chandigarh, India) 309
Some empirical relations for the prediction of soil evaporation, transpiration and root water uptake under field conditions
S. Al-Khafaf, F.A. Sharhan (Baghdad, Iraq), P.J. Wierenga (Las Cruces, NM, U.S.A.) and A.D. Iyada (Baghdad, Iraq) 323
Optimization of rainfed tropical cropping in semi-dry areas: a case study
R.A. Radulovich (San Jose, Costa Rica) 337

Announcements 353

Author Index Volume 16 355

Contents of *Agricultural Water Management*, Volume 16 359